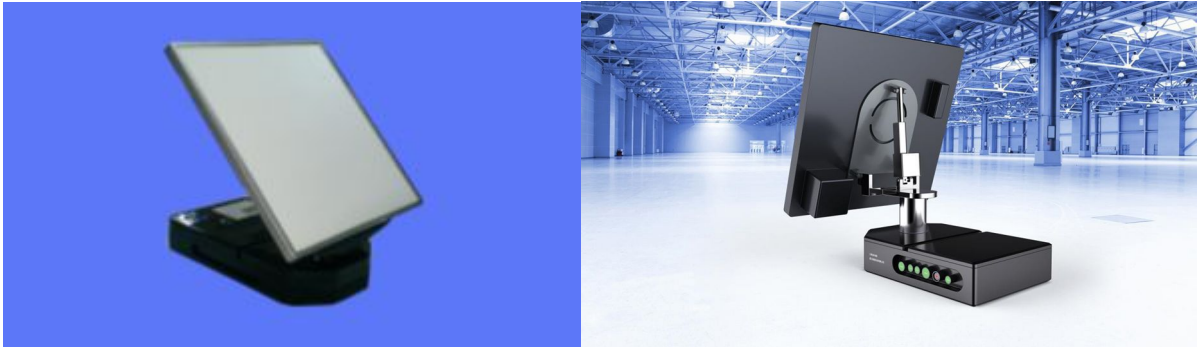


PORTABLE Ka BAND FLAT ANTENNA (CASE TYPE) DATASHEET

Portable Ka Band Flat Antenna Appearance



General description

China Starwin next generation portable Ka band antenna delivers exceptional high performance for transmitting/receiving application with high gain, low noise and low interference.

Antenna is integrated by a light and thin, high gain flat array antenna panel, an advanced servo subsystem and an auto tracking control unit. This state of art antenna is light-weight, small size, easy to carry and high reliability and will lead satellite communication terminal in new form from traditional parabolic antenna. This product will diverse Ka band HTS satellite application scenario, improve user experience and reduce the cost of portable satellite terminal.

The electrical performance is compliant with FCC and ITU sidelobe specifications and Intelsat, Eutelsat, SES, AsiaSat, ChinaSat, etc requirement.

Features:

- State of art and proven flat array antenna technology, **equivalent to 0.65m Ka band parabolic antenna**
- Multi-functional tracking mechanism, fully auto and high accuracy targeting satellite
- Light weight with ABS(Acrylonitrile-Butadiene-Styrene) antenna panel, carbon fiber Framework and enclosure and aluminum and magnesium alloy

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- Different BUCs and LNBs can be mounted on the back of antenna panel
- Easy to store, transport, carry and operate
- Meet the diversified satellite broadband access demand of the military, government, enterprise and consumer etc.

Technical Specification

Type of the antenna panel	Flat array antenna (equivalent to 0.65m parabolic Ka band antenna)
Frequency range	Tx 28.5~31.0GHz Rx 18.5~21.0GHz Ka frequency optional by customer
Polarization	Circular polarization
VSWR	≤1.5:1
Receiving Gain	39 dBi
Transmitting Gain	38.5 dBi
First sidelobe	≤-15dB
Cross polarization isolation	≥35dB
Tx/Rx polarization isolation	≥85dB
Satellite searching mode	Satellite parameter presetting GPS/inclinometer guiding
Satellite tracking mode	DVB-S2/satellite signal tracking (beacon tracking optional)
Tracking time	<120 S
BUC mounted on panel	1\2\3\5\10W
Antenna Power resistance	≥100W
Power supply	AC 90-240V (DC optional)
Antenna panel size/weight	610×570×20mm/5 Kg
Total Antenna net weight (including antenna panel, servo system)	15Kg
Wind (operational)	19m/s
Wind(survival)	25m/s
Water resistance	IP-65
Temperature	-40℃ to +60℃

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